

04/03/0570  
03/19

#2



ENTERED<sup>OIPE</sup>

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/083,815

DATE: 03/14/2002

TIME: 13:55:12

Input Set : A:\435c2.app

Output Set: N:\CRF3\03142002\J083815.raw

5 <110> APPLICANT: Anderson, Christen M.  
6 Clevenger, William  
9 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REGULATING  
10 ENDOGENOUS INHIBITOR OF ATP SYNTHASE, INCLUDING  
11 TREATMENT FOR DIABETES  
14 <130> FILE REFERENCE: 660088.435C2  
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/083,815  
18 <141> CURRENT FILING DATE: 2002-02-27  
20 <160> NUMBER OF SEQ ID NOS: 72  
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 6  
26 <212> TYPE: PRT  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <223> OTHER INFORMATION: Epitope tag  
32 <400> SEQUENCE: 1  
33 His His His His His His  
34 1 5  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 7  
38 <212> TYPE: PRT  
39 <213> ORGANISM: Artificial Sequence  
41 <220> FEATURE:  
42 <223> OTHER INFORMATION: Epitope tag  
44 <400> SEQUENCE: 2  
45 Asp Tyr Asp Asp Asp Asp Lys  
46 1 5  
48 <210> SEQ ID NO: 3  
49 <211> LENGTH: 6  
50 <212> TYPE: PRT  
51 <213> ORGANISM: Artificial Sequence  
53 <220> FEATURE:  
54 <223> OTHER INFORMATION: Epitope tag  
56 <400> SEQUENCE: 3  
57 Asp Thr Tyr Arg Tyr Ile  
58 1 5  
60 <210> SEQ ID NO: 4  
61 <211> LENGTH: 6  
62 <212> TYPE: PRT  
63 <213> ORGANISM: Artificial Sequence  
65 <220> FEATURE:  
66 <223> OTHER INFORMATION: Epitope tag

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68 <400> SEQUENCE: 4  
69 Thr Asp Phe Tyr Leu Lys  
70 1 5  
72 <210> SEQ ID NO: 5  
73 <211> LENGTH: 10  
74 <212> TYPE: PRT  
75 <213> ORGANISM: Artificial Sequence  
77 <220> FEATURE:  
78 <223> OTHER INFORMATION: Epitope tag  
80 <400> SEQUENCE: 5  
81 Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu  
82 1 5 10  
84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 9  
86 <212> TYPE: PRT  
87 <213> ORGANISM: Artificial Sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: Epitope tag  
92 <400> SEQUENCE: 6  
93 Glu Glu Glu Glu Tyr Met Pro Met Glu  
94 1 5  
96 <210> SEQ ID NO: 7  
97 <211> LENGTH: 9  
98 <212> TYPE: PRT  
99 <213> ORGANISM: Artificial Sequence  
101 <220> FEATURE:  
102 <223> OTHER INFORMATION: Epitope tag  
104 <400> SEQUENCE: 7  
105 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala  
106 1 5  
108 <210> SEQ ID NO: 8  
109 <211> LENGTH: 5  
110 <212> TYPE: PRT  
111 <213> ORGANISM: Artificial Sequence  
113 <220> FEATURE:  
114 <223> OTHER INFORMATION: Epitope tag  
116 <400> SEQUENCE: 8  
117 Arg Tyr Ile Arg Ser  
118 1 5  
120 <210> SEQ ID NO: 9  
121 <211> LENGTH: 6  
122 <212> TYPE: PRT  
123 <213> ORGANISM: Artificial Sequence  
125 <220> FEATURE:  
126 <223> OTHER INFORMATION: Epitope tag  
128 <400> SEQUENCE: 9  
129 Pro Pro Glu Pro Glu Thr  
130 1 5  
132 <210> SEQ ID NO: 10

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133 <211> LENGTH: 8
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: cellular transport sequence
140 <400> SEQUENCE: 10
141 Arg Lys Lys Arg Arg Gln Arg Arg
142 1 5
144 <210> SEQ ID NO: 11
145 <211> LENGTH: 21
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: cellular transport sequence
152 <400> SEQUENCE: 11
153 aggaagaagc ggagacagag a 21
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 324
157 <212> TYPE: DNA
158 <213> ORGANISM: Rattus norvegicus
160 <400> SEQUENCE: 12
161 atggcaggct cggcggttggc ggttcgggct cggctcgggtg tctgggggtat gagggtcctg 60
162 caaacccgag gcttcggctc ggactcgtcg gagagcatgg attcgggcgc tggctccatc 120
163 cgagaagctg gtggggcctt cgggaaacga gagaaggctg aagaggatcg gtacttccga 180
164 gagaagacta gagagcagct ggctgccttg aagaagcacc atgaagatga gattgaccac 240
165 cattcgaagg agatagagcg tctgcaaaaa cagatcgaac ggcataagaa gaagattaaa 300
166 tacctaaaga atagttagca ttga 324
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 107
170 <212> TYPE: PRT
171 <213> ORGANISM: Rattus norvegicus
173 <400> SEQUENCE: 13
174 Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly
175 1 5 10 15
176 Met Arg Val Leu Gln Thr Arg Gly Phe Gly Ser Asp Ser Ser Glu Ser
177 20 25 30
178 Met Asp Ser Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
179 35 40 45
180 Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg
181 50 55 60
182 Glu Gln Leu Ala Ala Leu Lys Lys His His Glu Asp Glu Ile Asp His
183 65 70 75 80
184 His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Glu Arg His Lys
185 85 90 95
186 Lys Lys Ile Lys Tyr Leu Lys Asn Ser Glu His
187 100 105
189 <210> SEQ ID NO: 14
190 <211> LENGTH: 75
191 <212> TYPE: DNA

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192 <213> ORGANISM: Rattus norvegicus
194 <400> SEQUENCE: 14
195 atggcaggct cggcggttggc ggttcgggct cggctcgggtg tctgggggtat gaggggtcctg      60
196 caaacccgag gcttc                                     75
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 509
200 <212> TYPE: DNA
201 <213> ORGANISM: Mus musculus
203 <400> SEQUENCE: 15
204 cgcaacgcga gctgagcaac gccgaagaca atggcaggct cggcggttggc agttcgggct      60
205 cggttcgggtg tctgggggtat gaagggtcctg caaacccgag gcttcgtctc ggactcgtcg      120
206 gatagcatgg atacggggcgc tggctccatc cgagaagctg gtggagcctt cggaaaacga      180
207 gaaaaggctg aagaggatcg gtacttccga gagaagacta aagaacagct ggctgccctg      240
208 aggaaacacc atgaagatga gattgaccac cattcgaagg agatagagcg tctgcagaag      300
209 caaattgatc gccataagaa gaagatccaa caactaaaga ataatcattg aatgcgcgca      360
210 gtcgggtccct cacagagtgg cccgtatcac tccccacgct tgtagacaca tggctttgaa      420
211 tgattactat ttggtctgtg tgctactaac agataataaa cgatcaccag gaaactttta      480
212 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                509
214 <210> SEQ ID NO: 16
215 <211> LENGTH: 106
216 <212> TYPE: PRT
217 <213> ORGANISM: Mus musculus
219 <400> SEQUENCE: 16
220 Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Phe Gly Val Trp Gly
221   1           5           10           15
222 Met Lys Val Leu Gln Thr Arg Gly Phe Val Ser Asp Ser Ser Asp Ser
223           20           25           30
224 Met Asp Thr Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
225           35           40           45
226 Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Lys
227           50           55           60
228 Glu Gln Leu Ala Ala Leu Arg Lys His His Glu Asp Glu Ile Asp His
229 65           70           75           80
230 His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Asp Arg His Lys
231           85           90           95
232 Lys Lys Ile Gln Gln Leu Lys Asn Asn His
233           100          105
235 <210> SEQ ID NO: 17
236 <211> LENGTH: 23
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: PCR primer
243 <400> SEQUENCE: 17
244 cacaaagata tcggaaccct cta                                     23
246 <210> SEQ ID NO: 18
247 <211> LENGTH: 25
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence

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251 <220> FEATURE:
252 <223> OTHER INFORMATION: PCR primer
254 <400> SEQUENCE: 18
255 aagtgggctt ttgctcatgt gtcac                                     25
257 <210> SEQ ID NO: 19
258 <211> LENGTH: 47
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: PCR primer
265 <400> SEQUENCE: 19
266 tgagctcaga tatggcagga agaagcggag acagagagga atggcag          47
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 34
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: PCR primer
276 <400> SEQUENCE: 20
277 atataagctt tcaatgctca ctattcttta ggta                          34
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 33
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Tat-derived cellular targeting sequence
287 <400> SEQUENCE: 21
288 agatatggca ggaagaagcg gagacagaga gga                          33
290 <210> SEQ ID NO: 22
291 <211> LENGTH: 11
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Tat-derived cellular targeting sequence
298 <400> SEQUENCE: 22
299 Arg Tyr Gly Arg Lys Lys Arg Arg Gln Arg Gly
300 1           5           10
302 <210> SEQ ID NO: 23
303 <211> LENGTH: 48
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: PCR primer
310 <400> SEQUENCE: 23
311 tgagctcagg atatggcagg aagaagcggg gacagagagg aggctcgg          48
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 34
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

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L:17 M:270 C: Current Application Number differs, Wrong Format